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L11	12	particle adj animat\$4	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/17 16:56
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J Marks, B Andalman, PA Beardsley, W Freeman, S ... - SIGGRAPH, 1997 - portal.acm.org

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Graphics and Animation J. Marks MERL B. Andalman Harvard Univ. ...

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A Fournier, WT Reeves - Proceedings of the 13th annual conference on Computer ..., 1986 - portal.acm.org

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41 3.3.1 Particle Animation and Rendering Using Parallel Computation . #Reeves 85#and water #Sims 90#3.3.1 Particle Animation and Rendering Using Parallel Computation www.cs.ubc.ca/grads/resources/thesis/Nov00/Paul-Fearing.pdf

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data is typically visualized by displaying a **particle animation** or streamlines. We present an efficient (O(1)Keywords: volume visualization, **particle animation**, fluid flow, irregular grids, computational www.accad.ohio-state.edu/~dreed/Papers/spie.ps.gz

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1 Particle animation and rendering using data parallel computation

window

Karl Sims

September 1990 ACM SIGGRAPH Computer Graphics, Proceedings of the 17th annual conference on Computer graphics and interactive techniques, Volume 24 Issue 4

Full text available: pdf(5.82 MB)

Additional Information: full citation, abstract, references, citings, index terms

Techniques are presented that are used to animate and render particle systems with the Connection Machine CM-2, a data parallel supercomputer. A particle behavior language provides an animator with levels of control from kinematic spline motions to physically based simulations. A parallel particle rendering system allows particles of different shapes, sizes, colors and transparencies to be rendered with antialiasing, hidden surfaces, and motion-blur. One virtual processor is assigned to each pri ...

² Painterly rendering for animation

Barbara J. Meier

August 1996 Proceedings of the 23rd annual conference on Computer graphics and interactive techniques

Full text available: pdf(180.73 KB) Additional Information: full citation, references, citings, index terms

Keywords: abstract images, non-photorealistic rendering, painterly rendering, painting, particle systems

3 Design galleries: a general approach to setting parameters for computer graphics and animation



J. Marks, B. Andalman, P. A. Beardsley, W. Freeman, S. Gibson, J. Hodgins, T. Kang, B. Mirtich, H. Pfister, W. Ruml, K. Ryall, J. Seims, S. Shieber

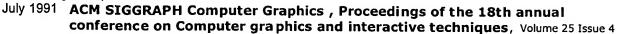
August 1997 Proceedings of the 24th annual conference on Computer graphics and interactive techniques

Full text available: pdf(1.25 MB) Additional Information: full citation, references, citings, index terms

Keywords: animation, computer-aided design, image rendering, lighting, motion synthesis, particle systems, physical modeling, visualization, volume rendering

Animation aerodynamics

Jakub Wejchert, David Haumann



Full text available: pdf(1.61 MB)

Additional Information: full citation, abstract, references, citings, index terms

Methods based on aerodynamics are developed to simulate and control the motion of objects in fluid flows. To simplify the physics for animation, the problem is broken down into two parts: a fluid flow regime and an object boundary regime. With this simplification one can approximate the realistic behaviour of objects moving in liquids or air. It also enables a simple way of designing and controlling animation sequences: from a set of flow primitives, an animator can design the spatial arrangemen ...

Keywords: aerodynamics, animation, control motion design, flow primitives, fluid mechanics, leaves

5 Predicting the drape of woven cloth using interacting particles

David E. Breen, Donald H. House, Michael J. Wozny

July 1994 Proceedings of the 21st annual conference on Computer graphics and interactive techniques

≥ ps(5.47 MB)

Full text available: pdf(483,23 KB) Additional Information: full citation, abstract, references, citings, index

terms

We demonstrate a physically-based technique for predicting the drape of a wide variety of woven fabrics. The approach exploits a theoretical model that explicitly represents the microstructure of woven cloth with interacting particles, rather than utilizing a continuum approximation. By testing a cloth sample in a Kawabata fabric testing device, we obtain data that is used to tune the model's energy functions, so that it reproduces the draping behavior of the original material. Photographs, ...

Keywords: Kawabata Evaluation System, cloth, drape, particle systems, physically-based modeling

6 Animating explosions

Gary D. Yngve, James F. O'Brien, Jessica K. Hodgins

July 2000 Proceedings of the 27th annual conference on Computer graphics and interactive techniques

Full text available: pdf(853.00 KB)

Additional Information: full citation, abstract, references, citings, index

In this paper, we introduce techniques for animating explosions and their effects. The primary effect of an explosion is a disturbance that causes a shock wave to propagate through the surrounding medium. The disturbance determines the behavior of nearly all other secondary effects seen in explosion. We simulate the propagation of an explosion through the surrounding air using a computational fluid dynamics model based on the equations for compressible, viscous flow. To model the numericall ...

Keywords: animation, atmospheric effects, computational fluid dynamics, natural phenomena, physically based animation

Visual debugging of visualization software: a case study for particle systems Patricia Crossno, Edward Angel

October 1999 Proceedings of the conference on Visualization '99: celebrating ten years

Full text available: pdf(748.45 KB)

Additional Information: full citation, abstract, references, citings, index

Visualization systems are complex dynamic software systems. Debugging such systems is

difficult using conventional debuggers because the programmer must try to imagine the three-dimensional geometry based on a list of positions and attributes. In addition, the programmer must be able to mentally animate changes in those positions and attributes to grasp dynamic behaviors within the algorithm. In this paper we shall show that representing geometry, attributes, and relationships graphically p ...

Keywords: algorithm animation, particle systems, program animation, program visualization, visual debugging

8 Surface modeling with oriented particle systems

Richard Szeliski, David Tonnesen

July 1992 ACM SIGGRAPH Computer Graphics , Proceedings of the 19th annual conference on Computer graphics and interactive techniques, Volume 26 Issue 2

Full text available: pdf(4.15 MB)

Additional Information: full citation, references, citings, index terms

Keywords: oriented particles, particle systems, physically-based modeling, self-organizing systems, surface interpolation

9 Animating prairies in real-time

Frank Perbet, Maric-Paule Cani

March 2001 Proceedings of the 2001 symposium on Interactive 3D graphics

Full text available: pdf(799.80 KB) Additional Information: full citation, references, citings, index terms

Keywords: levels of detail, natural phenomena, real-time 3D graphics

10 Computational fluid dynamics in a traditional animation environment

Patrick Witting

July 1999 Proceedings of the 26th annual conference on Computer graphics and interactive techniques

Full text available: 📆 pdf(734.22 KB) Additional Information: full citation, references, citings, index terms

Keywords: animation, animation systems, applications, fluid simulations, natural phenomena, numerical analysis, physically based animation, physically based modeling, scientific visualization, texture mapping

11 Modeling the motion of a hot, turbulent gas

Nick Foster, Dimitris Metaxas

August 1997 Proceedings of the 24th annual conference on Computer graphics and interactive techniques

Full text available: pdf(5.92 MB) Additional Information: full citation, references, citings

Keywords: animation, convection, gas simulations, gaseous phenomena, physics-based modeling, smoke, steam, turbulent flow

12 Turbulent wind fields for gaseous phenomena

Jos Stam, Eugene Fiume

September 1993 Proceedings of the 20th annual conference on Computer graphics and

interactive techniques

Full text available: pdf(184.71 KB) Additional Information: full citation, references, citings, index terms

Keywords: Fourier synthesis, advection-diffusion, gaseous phenomena, stochastic modeling, transport model of illumination, turbulent flow

13 Stable fluids

Jos Stam

July 1999 Proceedings of the 26th annual conference on Computer graphics and interactive techniques

Full text available: pdf(1.33 MB)

Additional Information: full citation, references, citings, index terms

Keywords: Navier-Stokes, advected textures, animation of fluids, gaseous phenomena, implicit elliptic PDE solvers, interactive modeling, stable solvers

14 Real-time simulation of dust behavior generated by a fast traveling vehicle

Jim X. Chen, Xiadong Fu, J. Wegman

April 1999 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 9
Issue 2

Full text available: pdf(1.01 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, review

Simulation of physically realistic complex dust behavior is very useful in training, education, art, advertising, and entertainment. There are no published models for real-time simulation of dust behavior generated by a traveling vehicle. In this paper, we use particle systems, computational fluid dynamics, and behavioral simulation techniques to simulate dust behavior in real time. First, we analyze the forces and factors that affect dust generation and the behavior after dust particles ar ...

Keywords: computational fluid dynamics, particle systems, physically-based modeling, real-time simulation, vehicle

15 Interactive visualization of flow fields

Allen Van Gelder, Jane Wilhelms

December 1992 Proceedings of the 1992 workshop on Volume visualization

Full text available: pdf(975.97 KB) Additional Information: full citation, references, citings, index terms

16 Computer modelling of fallen snow

Paul Fearing

July 2000 Proceedings of the 27th annual conference on Computer graphics and interactive techniques

Full text available: 🔁 pdf(3.72 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

In this paper, we present a new model of snow accumulation and stability for computer graphics. Our contribution is divided into two major components, each essential for modelling the appearance of a thick layer of snowfall on the ground. Our accumulation model determines how much snow a particular surface receives, allowing for such phenomena as flake flutter, flake dusting and wind-blown snow. We compute snow accumulation by shooting particles upwards towards t ...

Keywords: avalanches, natural phenomena, snow, stability

17 Modelling physical objects for simulation

Paula Sweeney, Alan Norton, Robert Bacon, David Haumann, Greg Turk December 1991 Proceedings of the 23rd conference on Winter simulation

Full text available: pdf(636.08 KB) Additional Information: full citation, references, citings, index terms

18 Cellular texture generation

Kurt W. Fleischer, David H. Laidlaw, Bena L. Currin, Alan H. Barr September 1995 Proceedings of the 22nd annual conference on Computer graphics and interactive techniques

Full text available: pdf(268.98 KB)

Additional Information: full citation, references, citings, index terms

Keywords: bump mapping, constraints, data amplification, developmental models, displacement mapping, particle systems, texture mapping

19 Spot noise texture synthesis for data visualization

Jarke J. van Wiik

July 1991 ACM SIGGRAPH Computer Graphics, Proceedings of the 18th annual conference on Computer graphics and interactive techniques, Volume 25 Issue 4

Full text available: pdf(8.67 MB)

Additional Information: full citation, abstract, references, citings, index terms

The use of stochastic texture for the visualization of scalar and vector fields over surfaces is discussed. Current techniques for texture synthesis are not suitable, because they do not provide local control, and are not suited for the design of textures. A new technique, *spot noise*, is presented that does provide these features. Spot noise is synthesized by addition of randomly weighted and positioned spots. Local control of the texture is realized by variation of the spot. The spot is ...

Keywords: flow visualization, fractals, particle systems, scientific visualization, texture synthesis

²⁰ Flow Visualization I: Rendering surface-particles

Jarke J. van Wijk

October 1992 Proceedings of the 3rd conference on Visualization '92

Full text available: pdf(747.45 KB) Additional Information: full citation, abstract, references, citings

Surface-particles are very small facets, modeled as points with a normal. They can be used to visualize flow in several ways by variation of the properties of the particle sources. Here a new method is presented for the rendering of surface-particles. This method includes an improved shading model, the use of Gaussian filters for the prevention of spatial and temporal artifacts, an efficient scan-conversion algorithm, the handling of occlusion and the simultaneous rendering of geometric objects ...

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